

5957 95078

SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800

Rev. 8/27/01 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, CP4-9C18, 306-5429.

Date 5/27/03 Serial # 09/891,925 Priority Application Date 5/31/94Your Name Sara W. Crane Examiner # 64804AU 2811 Phone 703 308-4894 Room CP4 4A09In what format would you like your results? Paper is the default. PAPER DISK EMAIL

If submitting more than one search, please prioritize in order of need.

scrane@
uspto.gov

The EIC searcher normally will contact you before beginning a prior art search. If you would like to sit with a searcher for an interactive search, please notify one of the searchers.

Where have you searched so far on this case?

05-27-03 P03:16 IN

Circle: USPT DWPI EPO Abs JPO Abs IBM TDB

Other: _____

What relevant art have you found so far? Please attach pertinent citations or Information Disclosure Statements. _____

What types of references would you like? Please checkmark:

Primary Refs _____ Nonpatent Literature _____ Other _____

Secondary Refs _____ Foreign Patents _____

Teaching Refs _____

What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

I need a litigation search done for
this reissue application. The original
patent no. is 5,945,692 (Serial No.
08/432,812)

Staff Use Only

Searcher: _____

Searcher Phone: _____

Searcher Location: STIC-EIC2800, CP4-9C18

Date Searcher Picked Up: _____

Date Completed: _____

Searcher Prep/Rev Time: _____

Online Time: _____

Type of Search

Structure (#) _____

Bibliographic _____

Litigation _____

Fulltext _____

Patent Family _____

Other _____

Vendors

STN _____

Dialog _____

Questel/Orbit _____

Lexis-Nexis _____

WWW/Internet _____

Other _____



STIC Search Report

EIC 2800

STIC Database Tracking Number: 95078

**TO: Sara Krane
Location: CP4- 4A09
Art Unit : 2811
Tuesday, May 27, 2003**

Case Serial Number: 09/891925

**From: Darcy Bates
Location: EIC 2800
CP4-9C18
Phone: 306-5419**

darcy.bates@uspto.gov

Search Notes

Re: 09/891,925 US 5,945,692

Attached are search results.

**No U. S. litigation was found in searches of
Lexis-Nexis and Questel-Orbit databases.**

**If more searching or explanation is needed, please let
me know.**

**Thanks,
Darcy Bates**

Source: [Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Patents](#) > [U.S. Patents](#) > [Utility Patents](#) (i)

Terms: **patno=5945692** ([Edit Search](#))

432812 (08) 5945692 August 31, 1999

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
5945692

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[Link to Claims Section](#)

August 31, 1999

Semiconductor device and method of fabricating same

REISSUE: Reissue Application filed Jun. 27, 2001 (O.G. Sep. 11, 2001) Ex. Gp.: 2811; Re. S.N. 09/891,925, (O.G. September 11, 2001)

INVENTOR: Yano, Mitsuhiro, Fukuoka, JP; Mochizuki, Kouichi, Fukuoka, JP

APPL-NO: 432812 (08)

FILED-DATE: May 2, 1995

GRANTED-DATE: August 31, 1999

PRIORITY: May 31, 1994 - 6-118386 P, Japan (JP)

ASSIGNEE-AT-ISSUE: Mitsubishi Denki Kabushiki Kaisha, Tokyo, JP

ASSIGNEE-AFTER-ISSUE: June 14, 1995 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., MITSUBISHI DENKI KABUSHIKI KAISHA 2- 3, MARUNOUCHI 2-CHOME, CHIYODA-KU TOKYO J APAN 100, Reel and Frame Number: 007592/0717

LEGAL-REP: Oblon, Spivak, McClelland, Maier & Neustadt, P.C.

PUB-TYPE: August 31, 1999 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

US-MAIN-CL: 257#139

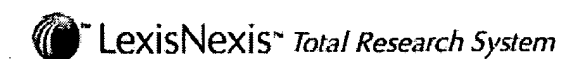
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CL: 257

SEARCH-FLD: 257#139, 257#212, 257#341, 257#401, 257#630, 257#646, 257#649

IPC-MAIN-CL: H 01L029#74

PRIM-EXMR: Crane, Sara

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patno=5945692

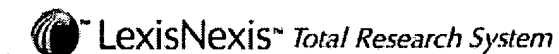
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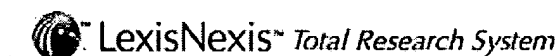
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5/27/03

US 5,945,692

09/891925

Selected file: PLUSPAT

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Comprehensive Worldwide Patents database
New Patent Citation Commands & FAM Citation Report - see INFO PATCITE
Last update of file: 2003/05/22 (YYYY/MM/DD) 2003-20/UP (basic update)

Search statement 1

?us5945692/pn

** SS 1: Results 1

Search statement 2

?prt fu legalall max

1/1 PLUSPAT - (C) QUESTEL-ORBIT

PN - US5945692 A 19990831 [US5945692]

TI - (A) Semiconductor device and method of fabricating same

PA - (A) MITSUBISHI ELECTRIC CORP (JP)

PA0 - Mitsubishi Denki Kabushiki Kaisha, Tokyo [JP]

IN - (A) YANO MITSUHIRO (JP); MOCHIZUKI KOUICHI (JP)

AP - US43281295 19950502 [1995US-0432812]

PR - JP11838694 19940531 [1994JP-0118386]

IC - (A) H01L-029/74

EC - H01L-023/31

- H01L-029/06B2B2C2

- H01L-029/423D2B7C

- H01L-029/739C2

- H01L-029/78B2

PCL - ORIGINAL (O) : 257139000; CROSS-REFERENCE (X) : 257E23123 257E29011
257E29136 257E29198 257E29257 257212000 257401000 257630000
257646000 257649000

DT - Corresponding document

CT - US4161744; US4364073; US4814283; US5196354; US5521409; EP0091079;

JP1-265524; JP4-57330; JP4-130631

- Patent Abstracts of Japan, vol. 14, No. 408 (E-972) (4351), Sep. 4, 1990, and JP 2 153570, Jun. 13, 1990.

IEEE Transactions on Electron Devices, vol. ED-27, No. 2, pp. 340-343, Feb. 1980, Richard W. Coen, et al., "A High-Performance Planar Power Mosfet".

Patent Abstracts of Japan, vol. 11, No. 275 (E-537) (2722), Sep. 5, 1987, and JP 62 73766, Apr. 4, 1987.

Patent Abstracts of Japan, vol. 16, No. 558 (E-1294), Nov. 27, 1992, and JP 4 212468, Aug. 4, 1992.

STG - (A) United States patent

AB - There is disclosed a semiconductor device having an MOS gate for reducing variations in threshold voltage (Vth) with time wherein a surface protective film is not formed in a device area including channels but only in a device peripheral area, thereby reducing the amount of hydrogen atoms migrating to a silicon-silicon oxide interface in a cell area and, accordingly, reducing the number of Si--H chemical bonds at the interface.

5/27/03

US 5,945,692

09/891925

1/1 LGST - (C) LEGSTAT
PN - US 5945692 [US5945692]
AP - US 432812/95 19950502 [1995US-0432812]
DT - US-P
ACT - 19950502 US/AE-A
APPLICATION DATA (PATENT)
{US 432812/95 19950502 [1995US-0432812]}
- 19950614 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
MITSUBISHI DENKI KABUSHIKI KAISHA 2-3, MARUNOUCHI 2-CHOME, CHIYODA-KU
TOKYO, JAP * YANO, MITSUHIRO : 19950411; MOCHIZUKI, KOUICHI : 19950411
- 19990831 US/A
PATENT
- 20010911 US/RF
REISSUE APPLICATION FILED
20010627
UP - 2001-40

1/1 CRXX - (C) CLAIMS/RRX
AN - 3193545
PN - 5,945,692 A 19990831 [US5945692]
PA - Mitsubishi Denki K K JP
PT - E (Electrical)
ACT - 20010627 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20010911
REISSUE REQUEST NUMBER: 09/891925
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2811

Reissue Patent Number:

UP - 2001-37
UACT- 2001-09-11

Search statement 2

?file inpadoc

Selected file: INPADOC

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For information on content, ..INFO INPD.

Search statement 1

?fam us5945692/pn

1 Patent Groups
** SS 1: Results 7

Search statement 2

?famstate nonstop

1/7 INPADOC - (C) INPADOC

PN - DE 69507987 CO 19990408 [DE69507987]
TI - HALBLEITERANORDNUNG MIT EINER MOS-GATE-STRUKTUR UND EINEM
OBERFLAECHENSCHUTZFILM UND VERFAHREN ZUR HERSTELLUNG
IN - YANO MITSUHIRO [JP]; MOCHIZUKI KOUICHI [JP]
PA - MITSUBISHI ELECTRIC CORP [JP]
AP - DE 69507987/95-A 19950512 [1995DE-6007987]
PR - JP 118386/94-A 19940531 [1994JP-0118386]
IC - H01L-029/78; H01L-023/31; H01L-029/06; H01L-029/423; H01L-029/739

1/2 LEGALI - (C) LEGSTAT

PN - DE 69507987 [DE69507987]
DT - DE-P
ACTE- 19990408 DE/REF-P
CORRESPONDS TO
(EP 685890 19990408 [EP-685890])
- 19990729 DE/8373
TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND HAS
BEEN PUBLISHED
- 20000330 DE/8364 [+]
NO OPPOSITION DURING TERM OF OPPOSITION
UP - 2000-13

2/2 LEGALI - (C) LEGSTAT

PN - EP 685890 [EP-685890]
AP - EP 95107265/95 19950512 [1995EP-0107265]
DT - EP-P
ACTE- 19950512 EP/AE-A
EP-APPLICATION
{EP 95107265/95 19950512 [1995EP-0107265]}
- 19951206 EP/AK-A1 [+]
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT:
DE FR GB
- 19951206 EP/A1 [+]
PUBLICATION OF APPLICATION WITH SEARCH REPORT
- 19960207 EP/17P [+]
REQUEST FOR EXAMINATION FILED
951212
- 19970604 EP/17Q [+]
FIRST EXAMINATION REPORT
970417
- 19990303 EP/AK-B1 [+]
DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION:
DE FR GB
- 19990303 EP/B1 [+]
PATENT SPECIFICATION
- 19990408 EP/REF-P
CORRESPONDS TO:
(DE 69507987 19990408 [DE69507987])
- 19990623 EP/REG; GB/727
GB: APPLICATION MADE FOR AMENDMENT OF SPECIFICATION (SECT. 27/1977)
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- 19990625 EP/ET [+]
FR: TRANSLATION FILED
- 19990811 EP/REG; GB/727A
GB: APPLICATION FOR AMENDMENT OF SPECIFICATION NOW OPEN TO OPPOSITION
(SECT. 27/1977)

5/27/03

US 5,945,692

09/891925

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- 19991124 EP/REG; GB/727B
GB: CASE DECIDED BY THE COMPTROLLER ** SPECIFICATION AMENDED (SECT.
27/1977)
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- 19991208 EP/REG; GB/SP
GB: AMENDMENT (SLIPS) PRINTED
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- 20000223 EP/26N [+]
NO OPPOSITION FILED
- 20020101 EP/REG; GB/IF02 [+]
GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01
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UP - 2002-17

2/7 INPADOC - (C) INPADOC
PN - DE 69507987 T2 19990729 [DE69507987]
TI - HALBLEITERANORDNUNG MIT EINER MOS-GATE-STRUKTUR UND EINEM
OBERFLAECHENSCHUTZFILM UND VERFAHREN ZUR HERSTELLUNG
IN - YANO MITSUHIRO [JP]; MOCHIZUKI KOUICHI [JP]
PA - MITSUBISHI ELECTRIC CORP [JP]
AP - DE 69507987/95-A 19950512 [1995DE-6007987]
PR - JP 118386/94-A 19940531 [1994JP-0118386]
IC - H01L-029/78; H01L-023/31; H01L-029/06; H01L-029/423; H01L-029/739

1/2 LEGALI - (C) LEGSTAT
PN - DE 69507987 [DE69507987]
DT - DE-P
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2/2 LEGALI - (C) LEGSTAT
PN - EP 685890 [EP-685890]
AP - EP 95107265/95 19950512 [1995EP-0107265]
DT - EP-P
ACTE- 19950512 EP/AE-A
EP-APPLICATION
{EP 95107265/95 19950512 [1995EP-0107265]}
- 19951206 EP/AK-A1 [+]
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DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION:

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3/7 INPADOC - (C) INPADOC

PN - EP 685890 A1 19951206 [EP-685890]
TI - SEMICONDUCTOR DEVICE HAVING A MOS GATE STRUCTURE AND A SURFACE
PROTECTIVE FILM AND METHOD OF FABRICATING THE SAME.
LA - ENG
IN - YANO MITSUHIRO C O MITSUBISHI [JP]; MOCHIZUKI KOUICHI C O FUKURYO [JP]
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IC - H01L-029/78; H01L-023/31; H01L-029/06; H01L-029/423; H01L-029/739
DS - DE* FR* GB*

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PA - MITSUBISHI ELECTRIC CORP [JP]
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PR - JP 118386/94-A 19940531 [1994JP-0118386]
IC - H01L-029/78; H01L-023/31; H01L-029/06; H01L-029/423; H01L-029/739
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PN - DE 69507987 [DE69507987]

DT - DE-P

ACTE- 19990408 DE/REF-P

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(EP 685890 19990408 [EP-685890])

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UP - 2000-13

2/2 LEGALI - (C) LEGSTAT

PN - EP 685890 [EP-685890]

AP - EP 95107265/95 19950512 [1995EP-0107265]

DT - EP-P

ACTE- 19950512 EP/AE-A

EP-APPLICATION

{EP 95107265/95 19950512 [1995EP-0107265]}

- 19951206 EP/AK-A1 [+]

DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT:

DE FR GB

- 19951206 EP/A1 [+]

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- 19960207 EP/17P [+]

REQUEST FOR EXAMINATION FILED

951212

- 19970604 EP/17Q [+]

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970417

- 19990303 EP/AK-B1 [+]

DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION:

DE FR GB

- 19990303 EP/B1 [+]

PATENT SPECIFICATION

- 19990408 EP/REF-P

CORRESPONDS TO:

(DE 69507987 19990408 [DE69507987])

- 19990623 EP/REG; GB/727

GB: APPLICATION MADE FOR AMENDMENT OF SPECIFICATION (SECT. 27/1977)

<GB>

- 19990625 EP/ET [+]

FR: TRANSLATION FILED

- 19990811 EP/REG; GB/727A

GB: APPLICATION FOR AMENDMENT OF SPECIFICATION NOW OPEN TO OPPOSITION

(SECT. 27/1977)

<GB>

- 19991124 EP/REG; GB/727B

GB: CASE DECIDED BY THE COMPTROLLER ** SPECIFICATION AMENDED (SECT.

27/1977)

<GB>

- 19991208 EP/REG; GB/SP

GB: AMENDMENT (SLIPS) PRINTED

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- 20000223 EP/26N [+]

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- 20020101 EP/REG; GB/IF02 [+]
GB: EUROPEAN PATENT IN FORCE AS OF 2002-01-01
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UP - 2002-17

5/7 INPADOC - (C) INPADOC

PN - JP 3275536 B2 20020415 [JP3275536]
AP - JP 118386/94-A 19940531 [1994JP-0118386]
PR - JP 118386/94-A 19940531 [1994JP-0118386]
IC - H01L-029/78; H01L-021/336

6/7 INPADOC - (C) INPADOC

PN - JP 7326744 A2 19951212 [JP07326744]
TI - SEMICONDUCTOR DEVICE AND MANUFACTURE THEREOF
IN - YANO MITSUHIRO; MOCHIZUKI KOICHI
PA - MITSUBISHI ELECTRIC CORP
AP - JP 118386/94-A 19940531 [1994JP-0118386]
PR - JP 118386/94-A 19940531 [1994JP-0118386]
IC - H01L-029/78

7/7 INPADOC - (C) INPADOC

PN - US 5945692 A 19990831 [US5945692]
TI - SEMICONDUCTOR DEVICE AND METHOD OF FABRICATING SAME
IN - YANO MITSUHIRO [JP]; MOCHIZUKI KOUICHI [JP]
PA - MITSUBISHI ELECTRIC CORP [JP]
AP - US 432812/95-A 19950502 [1995US-0432812]
PR - JP 118386/94-A 19940531 [1994JP-0118386]
IC - H01L-029/74

1/1 LEGALI - (C) LEGSTAT

PN - US 5945692 [US5945692]
AP - US 432812/95 19950502 [1995US-0432812]
DT - US-P
ACTE- 19950502 US/AE-A
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- 19950614 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
MITSUBISHI DENKI KABUSHIKI KAISHA 2-3, MARUNOUCHI 2-CHOME, CHIYODA-KU
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- 19990831 US/A
PATENT
- 20010911 US/RF
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